

# MUNICIPAL JOURNAL AND ENGINEER

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## WINNIPEG AND ITS STRIKE

General Interest in Street Railway Fight in Canadian City  
—Mayor Read Riot Act—Troops on Scene  
—Disturbance Quelled

A STREET railway strike of general municipal interest and some international features is in progress in Winnipeg, Manitoba. The occasion of the strike is a series of disagreements of long standing between the company and its employees—the men want more favorable conditions as to compensation and working conditions, and the company refuses to grant them. The strike, which began on the 29th ult., did not find the company wholly unprepared. They operated a few cars in the morning; the cars were attacked by mobs, and the police were unable to afford protection; the cars were abandoned; the day closed with the burning of some property and the triumph of the lawless element.

At the written request of the Mayor and two Magistrates, as required by law, the regular troops and the militia were held in readiness in the armories. A few cars were run on the second day, principally under the protection of strike-breakers, who had been sworn in as special constables. These men, strangers in the city, and perhaps some of them foreigners, were indiscreet in the exercise of their authority and excited the mobs to more violence until the Mayor ordered the regular troops on the scene. Their appearance did not intimidate the rioters, who proceeded to attack an approaching car. The crisis occurred. The Mayor read the riot act, commanded the mob to disperse; the officer gave the command to load with ball cartridge; the rifles clicked—the crowd hesitated and then dispersed. The day closed with the soldiers withdrawn to their quarters; cars returned to the barns, and no attempt to operate the road.

The third day opened with the news that the Attorney General had suspended the Magistrate who swore in the strike-breakers as special constables. A few cars were run, accompanied by constables and police, but no passengers were moved. A series of parades for strike duty of the regular troops—the Ninetieth Battalion and the battery—was arranged, and so strong a show of force was made that no further violence occurred.

## LIFE TENURE FOR POLICE

Officers in Massachusetts Cities Favored by Legislative Bill  
—City Officials Urge Reconsideration  
—Mayor Wood Incensed

POLICE OFFICERS in Massachusetts are given a life tenure by an Act passed by the Legislature and signed by Governor Curtis Guild, Jr. The Act is an amendment to the civil service laws and affects twenty-one of the thirty-three cities in the Commonwealth, as up to the time of its going into effect when signed by the Governor, only twelve of the cities had the life tenure. The enactment of the measure has caused a storm of disapproval on the part of municipal officials, and legislation repealing the law may be urged at an early day.

The original bill was introduced on petition of James M. Keaney, a police officer of Cambridge, who is President of the Massachusetts Police Association as an amendment to the Act passed in 1904, relating to the removal and suspension of employees under the classified civil service. It was referred to the committee on public service. Another petition, providing that policemen should hold office during their good behavior, was referred to the Committee on Probate and Chancery, and put over to the next session. The Public Service Committee had a hearing on its measure, February 27, and after amending the original Keaney Act, reported the same. The bill met with no opposition in either branch of the Legislature, and was passed and signed by the Governor before representatives in the Legislature, the Mayors and other officials realized its effect.

Mayor Roswell F. Wood of Haverhill, is leading the protest against the bill as it overrides the present law of the city, and other cities in the State which have found the limited tenure more satisfactory than life tenure. "The people of Haverhill voted against life tenure once," he said, "and I believe that this new law should have been submitted to the people for acceptance."

Secretary W. A. Dudley of the Massachusetts State Civil Service Commission is the authority for the statement that the bill affects all the cities in the State where the police officers have heretofore been appointed for a limited term of years.

## PUBLIC OWNERSHIP OF RAILWAYS

**Chicago Citizens Vote for Municipal Control, but Against Operation—Mayor Dunne on Issue—Plans Prepared**

THE recent Chicago election resulted in popular approval of the plan for public ownership and control of street railways. The proposition for municipal operation, requiring 60 per cent. of the total votes cast to become effective, was defeated by a narrow margin.

Mayor Dunne has stood out for public ownership with municipal operation of street railways all along. "That is what we believe in and what we stand for, and that is what the world is coming to," he says. Twelve years ago not a city in the world owned or operated its own street car lines, while now 142 large cities own their street railways, and many of them operate them, as well.

Concerning the acquisition of Chicago's street railways, Mayor Dunne is opposed to issuing \$75,000,000 in bonds to buy the property, at least at this time. The lines may be acquired and paid for out of their own earnings, and this is the proposed plan: That the city issue certificates guaranteed by all the street car property, and by a first lien on all fares paid. There would be no trouble in disposing of them, either, as they paid 5 per cent., while there was \$200,000,000 of the people's money in the savings bank that was only drawing from 2 to 3 per cent.

Thus the lines could be bought and paid for at a fair price, and would pay for themselves out of their earnings. Further, they would be able to give better service, better wages to the employees, and, if the operation of the lines is anything like as successful as that abroad, they will reduce the enormous list of casualties on the roads from the time they cease to be operated by private enterprise.

### Citizens Win Over Railroad

THE people of the Seventh Ward of Camden, N. J., won a signal victory over the West Jersey and Seashore Railroad Company before a joint meeting of the Committee on Streets and Railroads of the City Council recently. Ordinances granting the company right to block certain streets were under consideration, and the Council Chambers was crowded by those interested. Councilman Carmany of the Seventh Ward presented a petition signed by 700 of the 900 taxpayers of the ward, demanding that all the streets be opened, and stated that if this could not be secured in Council it would be by law. A motion that all streets be bridged or tunneled by the company carried.

### Toronto Street Car Report

A REPORT recently made by the City Engineer of Toronto, Canada, shows that one in every four passengers on the street railways of the city is compelled to stand. The statistics were taken on two days, from 5:30 A. M. to midnight, on all lines in the city, and are presented in forty pages of typewriting. The first day 162,893 passengers were carried, of whom 35,715, or 28.08 per cent. had to stand. During the rush hours the number of passengers standing was much greater.

## STRIKE IN MUNICIPAL PLANT

**Employees in Hamilton, Ohio, Gas Works Object to Reduction in Force—Eighteen Men Handle Twenty Tons of Coal**

A STRIKE in the municipal gas plant at Hamilton, Ohio, attracted considerable interest throughout the country. In order to curtail the operating expenses, the Board of Control, on April 1, discharged six men, reducing the force of helpers in the retort house to twelve men. These were to work in eight-hour shifts, handling twenty tons of coal during the twenty-four hours. When the order went into effect the men employed promptly walked out, leaving the retorts full of coal and the gas works in a crippled condition, if men could not be found to work.

Mayor W. F. Thomas was acquainted with the facts by A. Rothwell, Secretary of the Board, and he placed the works under guard. Arrangements were also made to secure a supply of gas from the Hamilton Otto Coke Company, and the mains were connected without delay. During the day sufficient help was secured to keep the fires in the gas retorts, and within a day or two the places of the old men had been filled. Mayor Thomas commended the Board for its action in saving \$300 per month without imposing undue hardship on the employees. The plant has been losing money and has a bonded indebtedness.

### Lighting Affairs at Alexandria, Va.

ALEXANDRIA, VA., which has had a varied experience in the lighting business, will lease its plant to private parties. At a recent meeting of the City Council the matter of leasing the franchise came up, and both branches voted to advertise for bids for leasing for a term of not more than thirty years. Several times during the past few years similar resolutions have been passed, but, owing to the opposition of different members to bids offered, the matter has fallen through. As some of those who have heretofore opposed the measure have changed front, an early settlement is looked for.

### Light Prices in Massachusetts

UNDER municipal ownership, Braintree, Mass., is furnishing electricity cheaper than it is bought in any other city or town in the State. The private consumer pays 12 cents per kilowatt hour in Braintree, 18 cents in Boston, New Bedford, and Brockton; 20 cents in Charlestown, Malden, Quincy, and Weston; 23 cents in Lexington, and 25 cents in Milford. The price in Braintree for street lighting per year is figured at \$49.38, as against \$74 at Quincy, \$90 at Milford, and \$124 in Boston.

### Half Century of Street Railroading

THE fiftieth anniversary of the inauguration of street railroading in New England was observed March 26. In 1856 four or five horse cars were started on the line between Cambridge and Boston. Passengers accustomed to riding on old-fashioned omnibuses hailed the innovation with enthusiasm, and a correspondent to a Boston newspaper wrote that the delightfulness of the motion was only to be compared with the most perfect sleighing.



## REGULATION OF UTILITIES

Power of State Is Not One to Destroy, According to Governor Higgins—Eighty-cent Gas Bill Signed—Memorandum on Timely Topic

IN signing the Legislative bill, fixing the price of gas in New York City at 80 cents per thousand cubic feet, several days ago, Governor Higgins in a memorandum treated of the general ethics of special privilege control of public service corporations, and the rights and responsibilities of persons investing in these stocks.

He speaks of the distrust which prevails, and continues:

"The hope of Democracy lies not wholly in municipal ownership, where—the fair incentive of personal gain being withdrawn—public utilities may perhaps be operated in a shiftless manner and at a loss, so that taxation of property must be resorted to in order that such utilities may be enjoyed at less than cost. It lies rather in a careful restriction of companies to a fair return on the value of their investment. Confiscation, if permitted by political expediency, which looks no further than the next campaign for the rule of right to govern its action, is prohibited by the constitution of State and Nation.

"When one devotes his property to a public use, he grants the public interest in that use, and must submit to be controlled by the public for the common good. The State has the power to make reasonable regulation of the charges for services rendered by corporations in the business of manufacturing and selling illuminating gas. To what extent must this regulation go?

"The authorities must fix upon a price which is reasonable. The power to regulate is not a power to destroy. The property of a corporation cannot be wrested from it for the benefit of the public. Its stockholders should receive some compensation for the use of the money they have invested. Yet the courts have held that judicial interference should not occur unless the case presents, clearly and beyond all doubt, such a flagrant attack upon the rights of property under the guise of regulation as to compel the court to say that the rates prescribed will necessarily have the effect to deny just compensation for private property taken for the public use.

"All laws regulating rates are subject to judicial review. Judicial inquiry may best determine where regulation ends and confiscation begins, but the power and the duty of the Legislature in this case seem clear, and the example of prompt and vigorous action should be a restraint on extortion and greed and ample evidence of the loyalty of public servants to the interests of the people."

### Lighting for Bridgeport, Conn.

AFTER two months' consideration the City of Bridgeport, Conn., has awarded the American Street Lighting Company, of Baltimore, a contract for lighting gas and gasoline lamps for \$25 per lamp per year, with the option of renewal for four years. A contract was also awarded the United Illuminating Company for arc lamps at \$79.75 a lamp per annum on a basis of 530 lamps.

## ONLY ONE BID FOR DREDGING

Protest Filed by Companies Interested in Delaware River Improvement—Nearly \$1,000,000 Involved—Former Bids Rejected

ONLY one bid was received in Philadelphia for dredging a 30-foot channel in the Delaware river, for which \$750,000 has been appropriated by the city and the State of Pennsylvania. Several other dredging companies were represented at the opening by Mr. J. McMullen, who protested to Director of Public Works Hicks and Chief Webster of the Survey Bureau against opening the solitary bid which had been submitted by the American Dredging Company of Philadelphia. He said the specifications made it impossible for the Atlantic, Gulf and Pacific Company, the Coastwise Dredging Company, the Morris Company, the North American and other dredging companies, representing a capital of \$20,000,000 to submit bids. He was requested to submit the complaint in writing, pending which action will be deferred on the contract.

When the bids were opened in November last there were five bidders, but the proposals were rejected as being too high, and readvertisements were made under new specifications. The specifications were sent to thirty firms and individuals. They were drawn under Government supervision. The bid of the American Dredging Company is lower than its former bid by \$29,632, and ranges from 15½ to 18½ cents a cubic yard on five different sections. To do the estimated amount of excavating to make the channel 600 feet wide at the price given would require more than \$900,000, but this would not necessitate a delay, as the work may progress until the money is exhausted. The American Dredging Company has a big contract with the Federal government for the work below the State line, being paid from 18 to 19 cents a cubic yard.

### Tunnel Under San Francisco Bay

A TUNNEL is to be run under San Francisco Bay by the Spring Valley Water Company from their proposed reservoir in the Calaveras Valley to the city of San Francisco. A shaft 125 feet deep will be sunk at Dunbarton Point, and a tunnel twelve feet in diameter run through a bed of clay, forty-five feet below the bottom of the bay. The conduit, nearly three miles long, will be constructed principally of concrete.

### Water Supply Improves Health

A REMARKABLE record for good health and a total absence of epidemics, even of the lighter diseases, has been enjoyed by Cleveland, Ohio. The reduction in disease is coincident with the introduction of a new water supply. The typhoid record of 15 deaths per 100,000, a very good record in itself, contrasts strongly with the average of 38.9 per 100,000, the record for the ten years preceding 1902. In the bacteriological department maintained by the city, examinations of the water have been made daily. Only twelve times during the year were the B. typhi found.

### Fire Safeguards for a City

MANY suggestions for safeguarding a city from fire are contained in a report made to the National Board of Fire Underwriters by George W. Booth and a corps of engineers, on conditions in Detroit, Mich., which city has been comparatively free from conflagrations during recent years. It is recommended that all overhead wires, except trolley wires, be placed underground in the closely built sections; that a Building Department be created to relieve the Fire Marshal of the duties usually performed by the Superintendent of Buildings, and that he be made subordinate to the Chief of the Fire Department; that the fire escape ordinances be rigidly enforced; that members of the Fire Department be retired at the age of 62, and that headquarters be established in a fireproof building; that a complete code of regulations governing the manufacture, sale, storage, and transportation of all explosives and inflammable substances be adopted; that automatic sprinkler equipment be required in all buildings which, by reason of their size, construction or occupancy, might act as conflagration breeders; that an additional pump of 25,000,000 gallons be installed; that the per capita rate of consumption be largely reduced by effective measures of waste prevention; that a single water supply service under pressure at the pumping station sufficient to maintain a minimum, during maximum domestic consumption, of not less than 75 pounds in the congested value district be installed; that twenty-three water mains be laid in the outlying districts, and that the hydrant supply mains be enlarged to twelve and eight inches.

#### Ownership of Water Meters

IN discussions of the adoption of water meters, the question often arises as to the proper ownership of meters, and it is generally recommended by engineers having such matters in charge that water meters, like gas meters, should be the property of the city department or company, so that there can be no question as to the right of control. To illustrate the necessity for ownership on the part of the supply company, a small consumer might put in a very large meter which would have an appreciable error in his favor. It is no less important that the meters and supply pipes should be protected from manipulation. It is not uncommon for dishonest consumers to disconnect supply pipes and take gas and water direct from the main. There has been placed on the market a seal to be attached to the unions all supply pipes, thus making it impossible to disconnect without breaking the seal and exposing the fraud. As the cost is trifling, it is advisable, also, to place a seal on the stop cock when it is closed by the company's authority. The dial also requires protection so that it cannot be removed and the reading of the dial altered.

#### Municipal Ownership in Kansas

MUNICIPAL ownership of water plants is considered a success by forty-seven Kansas towns. In Iola, for example, the receipts of the Water Department last year amounted to \$17,179.97.

### CALENDAR OF EVENTS

- April 12.*—WOMAN'S MUNICIPAL LEAGUE, 19 East Twenty-sixth street, New York.—Katherine T. Rhodes, Assistant Secretary, Room 1509, 31 Union Square West, New York.
- April 17.*—WASHINGTON SOCIETY OF ENGINEERS.—MONTHLY MEETING.—L. D. Bliss, Secretary, Washington, D. C.
- April 18-20.*—IOWA ELECTRICAL ASSOCIATION.—ANNUAL MEETING, DES MOINES.—George S. Carson, Secretary, Iowa City, Iowa.
- April 25.*—AMERICAN RAILWAY ASSOCIATION.—SEMI-ANNUAL MEETING, CHICAGO, ILL.—W. F. Allen, Secretary, 24 Park Place, New York.
- April 24-27.*—NATIONAL MUNICIPAL LEAGUE.—ANNUAL MEETING, ATLANTIC CITY.—Clinton Rogers Woodruff, Secretary, North American Building, Philadelphia.
- April 27.*—AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.—44 WEST TWENTY-SEVENTH STREET, NEW YORK.—Ralph W. Pope, Secretary, 95 Liberty street, New York.
- May 1-4.*—AMERICAN SOCIETY OF MECHANICAL ENGINEERS.—SEMI-ANNUAL MEETING, CHATTANOOGA, TENN.—F. R. Hutton, Secretary, 12 West Thirty-first street, New York.
- May 16-18.*—WESTERN GAS ASSOCIATION.—AT THE HOLLENDEEN HOUSE, CLEVELAND, OHIO.—James W. Dunbar, Secretary, New Albany, Ind.
- June 5-7.*—NATIONAL ELECTRIC LIGHT ASSOCIATION.—ATLANTIC CITY, N. J.—W. C. L. Elgin, Secretary, 136 Liberty street, New York.
- June 26.*—AMERICAN SOCIETY OF CIVIL ENGINEERS.—ANNUAL CONVENTION, THOUSAND ISLANDS, NEW YORK.—Charles Warren Hunt, Secretary, 220 West Fifty-seventh street, New York.
- June 26-28.*—NATIONAL INTERSTATE TELEPHONE ASSOCIATION.—Auditorium Hotel, Chicago, Ill.
- June 26-30.*—AMERICAN WATER WORKS ASSOCIATION.—ANNUAL CONVENTION AT BOSTON, MASS.—J. M. Diven, Secretary, 14 George street, Charleston, S. C.
- August 15-17.*—INTERNATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS.—ANNUAL MEETING, NEW HAVEN, CONN.—Frank P. Foster, Secretary, Corning, N. Y.
- September 26-28.*—TENTH ANNUAL CONVENTION.—LEAGUE OF AMERICAN MUNICIPALITIES AT CHICAGO.—John MacVicar, Secretary, Des Moines, Iowa.
- October 1-20.*—AMERICAN STREET AND INTERURBAN RAILWAY ASSOCIATION AT COLUMBUS, OHIO.
- October 9-12.*—INTERNATIONAL ASSOCIATION OF FIRE ENGINEERS.—DALLAS, TEX.—James McFall, Secretary, Roanoke, Va.
- October 29.*—AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.—BIRMINGHAM, ALA.—George W. Tillson, Secretary, Municipal Building, Brooklyn, N. Y.



## LEGAL DIGEST

### A Summary of

### RECENT DECISIONS

#### Toledo Filtration Contract

THE decision of Judge Barber in the Court of Common Pleas in regard to the Toledo filtration contract has been reversed. The action was for an injunction to prevent the construction of a water purification plant under a contract between the city and the Norwood Engineering Company. The Circuit Court holds that the contractor may proceed with the work. The suit was originally brought in Common Pleas Court before Judge Barber, in which Homer T. Yaryan, a taxpayer, is the plaintiff and the city of Toledo the defendant, and results from the letting of a contract for the filtration plant proper to the Norwood Engineering Company at \$483,327, while Thomas Lightbody, of Youngstown, was a bidder at \$425,000 and was prepared to furnish bond for the completion of the work in accordance with the specifications.

When the case was heard before Judge Barber he only passed on one point, and held that the Board of Public Service exceeded its power when it awarded the contract to the Norwood Engineering Company, in that, according to the contracts which have already been let and those which will be necessary to complete the works, the cost of the improvement will be about \$725,000, while the Council only appropriated \$565,000. He held that the Board of Service had no right to let a contract for more than was appropriated by the Council, and that the contract was invalid on this point.—*Decision by the Circuit Court, Toledo, March 31.*

#### A Case of Cutting Ice

THE defendant was found guilty of violating the regulation of the State Board of Health in cutting ice in the pond without a written permit from the Board of Water Commissioners of the city of Taunton. The court holds that the act does not authorize the Board of Health to delegate the granting or withholding of such a permit to another board, in this case the Board of Water Commissioners of Taunton. For this reason the regulation is void. The conviction is set aside.—*Supreme Court (Full Bench), Mass., March 4.*

#### Contract Valid

IT was held that the contract entered into by the Board of Public Works with the Warren Bros. Company for the use of their cement compound in paving the streets of the city to be valid and honest, and the contract will stand, if Indianapolis and the Warren Bros. can prove that the compound can be bought from others than the Warren Bros.—*Decision by Judge McMasters of the Superior Court, Indianapolis, Ind., March 14.*

#### Jonesboro (Ala.) Incorporation

THE incorporation of Jonesboro, the legality of which has been contested, was declared to be valid.—*Decision by Judge Senn, of the City Court of Birmingham, Ala., March 31.*

### Useful Utilities

THE increasing demand for macadamized roads throughout the country makes the selection of a rock crushing plant an important question for prospective bidders: an examination of Booklet No. 4 of the Power and Mining Machinery Company, manufacturers of the McCully crusher, will repay them. This machine has all the advantages of the gyratory style of crusher without the inconvenience of the step on which the weight of the main shaft and crushing head usually rests; for in the McCully the main shaft is suspended from the fulcrum at the top, and the friction and loss of power of the supported type is avoided.

Minor interesting details of the McCully, as well as other styles of machines and crusher accessories, are described at length, but the drawings of complete crushing and screening plants of various sizes and degrees of complexity are the feature of the booklet. They may be studied with profit by anyone interested in the production of road metal. What expert knowledge is needed in planning the setting up of a plant is furnished by the machinery company. Those who have struggled with the problem of setting up a crusher in times past when approved plans were not so readily obtained may feel some envy towards the crusher man of to-day, who has things made so easy for him.

DIFFERENT types of water meters and their appropriate uses are well described in a series of booklets published by the Hersey Manufacturing Company, South Boston, Mass. The most popular type of meter is the disk, and justly so, for at a low cost it is durable, accurate, and sensitive. For continual hard service, the rotary is recommended, as it can be kept in repair at a lower cost than any other type. Torrent meters are for special services, such as operating hydraulic elevators, railroad stand-pipes, and large manufacturing industries. The Detector meter is suitable for use on main supply pipes, especially when the Water Department desires a record of water used to discover excessive flow of water from leakage or waste. Such meters may be attached to a by-pass so that a test can be made by allowing all waste to pass through the meter for any given length of time. When not making a test, the water passes through the main line.

THE THOMSON METER CO., of Brooklyn, has recently been awarded the contract by the Board of Public Service of Cleveland, Ohio, for the following number of water meters: 10,000,  $\frac{5}{8}$ "—200, 1"—25, 1½"—100, 2".

This is probably one of the largest orders for water meters on record.

THE ALLIS-CHALMERS COMPANY operates altogether six large plants, in Milwaukee, Chicago, Scranton, and Cincinnati. When working full capacity, these plants employ 12,000 men. The extension at West Allis now under construction will employ 6,000 more, and is regarded as one of the model engineering works of the world. This company has recently equipped the works of the Horrocks Desk Company with seventy reduction motors.

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It is also desired that the facilities furnished by the reference library in this office should be widely known and freely used by those interested in municipal affairs. Visitors will be welcomed and provided with conveniences for search, and inquiries by mail will be promptly dealt with.

NEW YORK, APRIL 11, 1906.

## Hygienic Features of Subways

It is generally known that the hygienic features of the New York Rapid Transit Subway have been disappointing to the Commission and citizens generally. Some palliative measures, such as increasing the openings for ventilation and installing small electric fans in some of the stations, were adopted last summer, but it was recognized that the problem required treatment on more thorough and comprehensive lines. Accordingly, Dr. George A. Soper, the well-known consulting sanitary engineer, was entrusted with an investigation which has occupied six months, the results being detailed in a report recently submitted.

Contrary to what was generally believed, the Subway air is not found to deserve, as gauged by bacteriological methods, the ill repute generally assigned to it by suffering passengers. But the sanitary administration of the stations and roadbed is severely criticized. "The stations and toilet rooms have not been kept in a clean and orderly condition. . . . The ballast at many of the stations has served as the receptacle for unlimited quantities of filth of the kind usually consigned to cuspidors. In the matter of expectoration the guards and other employees of the operating company, who should be the sanitary guardians of the subway, are the chief offenders."

"Dry sweeping" of the stairways and platforms is condemned, even if carried out with sufficient frequency. "Mopping and scrubbing should be among the chief reliances for keeping the subway clean. . . . Dusting in stations should be done only with moist cloths, which should be properly cleaned after each using. The use of feather dusters should not be permitted, either in the stations or the cars." As regards the latter, the report states that they are "swept out too infrequently and cleaned inside and out apparently once in two or more

days. Accurate information with regard to this matter has not been obtainable. The Board of Health has recommended that the cars at the yards, after sweeping, should be closed, and after not less than three hours should be cleared of the dust which has settled."

One of the principal causes of the odor in the subway is stated to be the dripping of oil from the machinery of the cars upon the ballast and ties of the roadbed, the trap rock of which the ballast is composed giving off, in addition, a characteristic slaty odor. Analysis of dust samples showed a total percentage of 60 per cent. of iron and 22 per cent. organic matter. The care with which the investigation has been made may be gathered from the fact that 2,200 chemical analyses of air, 3,000 determinations of bacteria, 400 other analyses and 50,000 determinations of temperature and humidity were made; the latter were superseded later by automatic and continuous temperature records. A staff of twenty-one assistants, mainly college or technical school graduates, was employed.

## Good Government of Cities

COMMENTING upon the results of the last election in Buffalo, N. Y., the National Municipal League refers to that city as having been, in respect of its local government, suffering for some years "from the same evils which have existed in every American city where the civic conscience of its citizens has been allowed to slumber." As contrasted with this, the "outlook for a change is bright." By the election Mr. J. N. Adam was placed in the Mayor's office for four years from January 1, 1906. He is thoroughly acquainted with the city's needs, having been for nearly ten years past a member of one or the other of its two legislative boards. In these positions he has served with untiring zeal and exceptional fidelity the interests of both the taxpayer and the municipality. On the ticket with Mr. Adam were elected as Corporation Counsel and Comptroller men who stand ready to co-operate with him in his efforts to inaugurate an economical and progressive administration, free from graft.

"Our legislative boards are not yet what they should be. But the people are beginning to appreciate their need of aldermen and councilmen who will serve their interests by acting in office as faithful trustees. Within the past two years local leagues have been started whose purposes are to bring to the knowledge of the people the evils existing in the city's government and business management and to point out ways and means of correcting those evils. Much good has already been accomplished and is now being done by these leagues. Their success in arousing the interest of citizens in their work is one of the most hopeful signs for the future. The fight for good government in Buffalo has only commenced and needs the assistance of every force in the country engaged in a similar battle. It can be won in Buffalo as it has been won in Chicago, St. Louis and Philadelphia. It will be so now when the citizens of Buffalo come to understand that God's strength and methods enable a Folk or a Jerome to triumph over political bosses.



### Personalities

CHIEF W. W. McDOWELL, of the Youngstown, Ohio, police, has recommended that additional offices be created in the department.

MR. FREDERICK BURNETT, of Toronto, one of the gas experts who testified at Syracuse, N. Y., has been retained by the city of Auburn, N. Y.

MAYOR JOHN F. FITZGERALD, of Boston, Mass., recently inspected the lighting system of Washington, D. C. He also visited Philadelphia and New York.

MR. G. O. PROBST, Secretary of the Ohio State Board of Health, has been instructed by the Legislature to investigate all water and sewer purification plants in the State.

MAYOR GEORGE P. CODD, of Detroit, Mich., has reached an agreement with New York promoters of a subway rapid transit railway and will ask the City Council to vote a franchise.

MAJOR W. J. PARKES, for six years City Engineer of Bessemer, Ala., was recently tendered a farewell banquet by his fellow townsmen. He has been selected as City Engineer of Pine Bluff, Ark., at a more lucrative salary.

CHIEF ENGINEER JOSHUA B. F. BREED, of Louisville, Ky., has been offered the position of Chief Engineer of the sewer system, and Ex-Mayor Charles P. Weaver has been named as Secretary of the Board of Sewer Commissioners.

MR. GEORGE B. FRANCIS, a New York engineer, has been engaged by the City Council of Providence, R. I., to solve the problem of an easy grade approach to the East Side. Estimates ranging from \$200,000 to \$2,000,000 have been made for the work.

DR. H. M. BRACKEN, of St. Paul, Minn., may legally draw two salaries, as Secretary of the State Board of Health and instructor at the State University, according to the Public Examiner, who recently inquired into the records and methods of the Board.

HON. HENRY B. F. MACFARLAND has been named by President Roosevelt as Commissioner of the District of Columbia for a third term of three years. Hon. Henry L. West, the Democratic member of the Board, was recently rewarded with a second term.

MR. WILLIAM HICKMAN MOORE, who has been elected Mayor of Seattle, Wash., by the narrow margin of fifteen votes, was born in Missouri forty-four years ago and served as State Senator in the legislative session of 1902-1903. A lawyer by profession and a Democrat in politics, he has enjoyed in all contests, including that now closed, a large measure of Republican and independent support.

MR. ALBERT E. WINCHESTER, Chief of the South Norwalk, Conn., Fire Department and Superintendent of the municipal electric light plant, has sailed from New York for England, where his duties as a member of the National Civic Federation's special investigating committee will detain him for some time. Mr. Winchester has been specially assigned to look into the engineering conditions of British electric light plants.

### Chicago and the Gas Problem

THE acceptance, by the Chicago Gas Companies, of the city ordinance establishing an 85-cent rate for gas, has led to some not unnatural comment, due to the vehemence with which these bodies had maintained, during prolonged hearings, that the actual cost of producing and delivering gas was two cents higher than that figure. This, of course, was at variance with the expert testimony of Prof. E. W. Bemis, of Cleveland, who showed, at the same hearings, that the cost of gas to the Chicago consumer should not exceed 72 cents per thousand, a rate which, in his opinion, would yield a sound 6 per cent. investment for the real value of the plant. Mayor Dunne, who was strongly in favor of a 75-cent rate, will find some satisfaction in the present complaisant attitude of the companies, but as the ordinance settles the gas agitation for five years there will be no earlier opportunity of raising the question afresh.

### Opposed to Municipal Ownership

MUNICIPAL ownership of public utilities in the National capital is not deemed practicable by the Commissioners of the District of Columbia. In a letter recently sent by Capt. Chester Harding, acting Engineer Commissioner, to R. H. Ritchie, who sought information, the views of the Board of Commissioners were set forth. The communication stated that the District of Columbia operated no public utility, save the water supply, which is a success; that there is no agitation in the District for further city ownership; that the District would not be financially able, except by a bond issue, to purchase street railways, etc., and that such ownership and operation are not deemed to be practicable or advisable.

### School System of Chicago

SUPERINTENDENT E. G. COOLEY of the public schools of Chicago, Ill., spoke at the Twentieth Century Club, Boston, Mass., Saturday, on the importance of personal growth on the part of teachers. He told of the system of governing the schools in his home city, and explained that while he directly selects and appoints all teachers, a rule of the Board provides that every letter addressed to him or members of the Board regarding the appointment or promotion of any teacher shall be put on public file. The Superintendent personally selects every textbook used in the schools of the city. Mr. Cooley was at one time employed as a section hand on a railroad.

### Fire Statistics from St. Paul, Minn.

THE annual report of the Fire Board of St. Paul, Minn., filed with Mayor Smith, shows that there were 837 alarms during 1905, causing a loss of \$468,959, covered by insurance aggregating \$1,986,029. The expenses of the department were \$244,586.41, of which \$13,448.50 was for apparatus. Men in the department put in 1,345 days at work, not in the line of their regular duties, which, if performed by outside help, would have cost the city \$3,282.50. In addition to the usual statistics, the report contains a history of each engine company, and other facts of interest. A complete list of Fire Boards from 1881, when the paid department was inaugurated, is given.

### City Brevities.

AKRON, O., will have a city sealer, gas, electric and water meter inspector, providing an ordinance prepared by Solicitor Berry is passed by the City Council.

BARNESVILLE, MINN., is the only town in the State that operates its own telephone exchange. It also conducts an electric-light plant, and is constructing a \$40,000 waterworks system. Mayor Henry G. Tweeton says Barnesville is prosperous because it spends freely for improvements.

BIRMINGHAM, ALA., which boasts of more alleys than any other American city with the exception of Washington, D. C., is considering means to prohibit the building of shacks and for improving the sanitary conditions of the alleys.

CAMDEN, N. J., will ask the Legislature for authority to build and own underground conduits.

CENTRAL FALLS, R. I., Common Council has refused to recommend an appropriation of \$75,000 for a municipal lighting plant, notwithstanding that the taxpayers voted overwhelmingly for the project.

CINCINNATI, OHIO, expects to increase its park area by fifty acres. The property belongs to Congressman Nicholas Longworth who has informed J. W. Rogers, Superintendent of Parks, that his Cincinnati agent will act in the matter.

COUNCIL BLUFFS, IOWA, recently voted down a proposition to purchase the waterworks.

DALLAS, TEX., has a "Hundred and Fifty Thousand Club," composed of representative citizens. It is planned to swell the population of the city to 150,000 by 1910, to which end \$150,000 will be spent in advertising during the next five years.

DULUTH, MINN., is on an era of spring house-cleaning, brought about through the efforts of the woman's organizations of the city.

FRANKLIN, MASS., is to have a new water supply, artesian well-diggers from Boston being engaged in an effort to secure water which will pass the tests of the State and local Boards of Health.

FRANKLIN, PA., is in a turmoil over the appointment of a negro on the Police Force by Mayor William J. McConnell, the new Executive. Nine of the eleven Councilmen refused absolutely to vote for confirmation, and insist that if the Mayor persists in his intention to appoint the man from month to month, they will not provide for his salary.

HARRISBURG, PA., School Board received but two bids from twenty coal dealers and agents who had been asked to bid for the spring supply of fuel, and as these were too high, they were rejected. The miners' strike is assigned as the cause.

HAVERHILL, MASS., has a petition before the Legislature providing for the burial of wires within the city limits.

JOHNSTON, PA., will shortly have a paid Fire Department. The Assistance Company recently voted to turn

its property over to the city, and similar action will undoubtedly be taken by the Millvale and Conemaugh Companies.

MADISON, MINN., boasts of a \$10,000 electric-light plant, a magnificent Courthouse, a City Hall and a Library and will shortly install a complete system of drainage and waterworks. Mayor J. F. Rosenwald claims the city has probably laid more cement sidewalks than any other city of its size in the State.

MEXICO CITY, MEXICO, has expended \$4,000,000 for pavements alone during the past ten years, and has also made notable changes in its sewerage and electric light systems and boulevards. Plans are under way for further improvements.

NEWBURGH, N. Y., will inaugurate paving on a large scale under the new charter, in order to have the work done at a more reasonable price.

NEW HAVEN, CONN., has a new ordinance establishing a censorship of theaters, which directs the Chief of Police to pass upon the moral quality of all performances.

NORFOLK, VA., has a population of 46,624 and Lynchburg, Va., but 18,891, yet Norfolk has assessed personal property of only \$4,250,130 while Lynchburg's personality is \$5,141,102.

PENSACOLA, FLA., is stocking its ponds with minnows that they may destroy the embryo mosquitoes.

PORTLAND, ORE., can save thousands of dollars a year and be clean of filth and consequent sickness by operating its own garbage carriage system, according to C. L. Daggett, Superintendent of the City Crematory. He recommends the imposition of a tax, not to exceed 50 cents per family a year, for crematory purposes.

READING, PA., has an anti-smoke ordinance, but the Councils have neglected to provide machinery for putting the law into effect.

RICHMOND, VA., may employ an expert landscape artist to map out the future growth of the city. Similar action has been taken in Washington, Boston, Cleveland, Baltimore, and Columbia, S. C.

SACRAMENTO, CAL., has recently taken over a garbage destructor built by P. F. Dundon, of San Francisco.

SCHENECTADY, N. Y., may have an amendment to the building laws permitting the use of wooden shingles on houses in sections where the fire hazard is at a minimum.

TOLEDO, OHIO, may install a telephone system for the Police Department, to replace the police alarm telegraph, now secured by contract with private parties.

UTICA, N. Y., has a bill before the Legislature increasing its paving repair fund from \$17,500 to \$22,500. Utica has many miles of asphalt pavement of which it is proud.

WASHINGTON, D.C., merchants are up in arms against the passage of a bill by Congress, prohibiting the sale of undrawn poultry in the city.

WATERLOO, IOWA, citizens voted against purchasing the waterworks.

WEBSTER CITY, IOWA, at a recent election defeated the proposition for a municipal gas plant.



### Public Affairs

REFORMERS OF OWOSSO, MICH., are making an effort to force the use of voting machines in elections.

ELECTRICAL CONTRACTORS OF BUFFALO, N. Y., have organized to further the movement for a municipal lighting plant.

THE LEGISLATIVE VOTERS' LEAGUE of Chicago, Ill., sends a representative to Springfield during every session of the Legislature to work reforms.

THE POLICE OF FORT WORTH, TEX., must take regular target practice, according to Chief Maddox, the mounted officers firing at the targets from their horses.

AN ANTI-SMOKE BILL, which was being considered by the Maryland Legislature, was killed by an amendment inserted by the Judiciary Committee of the lower house.

AT NORFOLK, VA., the Atlantic Coast Terminal Company is planning to spend \$5,000,000 in creating freight and passenger terminals for both steam and electric railroads.

THE NEW YORK STATE GAS COMMISSION, which has been investigating conditions in Syracuse, will also make an investigation into the affairs of the gas company at Auburn.

THE CITY PHYSICIAN OF COLUMBIA, S.C., is to be supplied with a lactometer to test milk to be taken from wagons at random. It is also proposed to amend the milk ordinance in order to more fully protect citizens.

NEW YORK STATE has a number of village candidates for cityhood. Among these are White Plains, Peekskill, and Port Jervis. The population of each exceeds that of any one of seven incorporated cities in the State.

THE MILK CONTRACTORS of Boston, Mass., have drawn up contracts which impose a one-half-cent charge for washing cans. The Advisory Committee of the Milk Producers objects to the imposition and has issued an appeal.

THE SANITARY DEPARTMENT of Birmingham, Ala., has sent out notices directing that premises be cleaned and that all lots below the street grade where water might collect and stagnate be filled in. A "weed-cutting day" will be announced in time.

MAYOR DUNNE, OF CHICAGO, is opposed to granting any telephone franchise, or other franchise, unless a provision is included by which the municipality may acquire ownership of the system and operate the same whenever authority is conferred by the Legislature.

THE FINANCIAL STANDING OF TRENTON, N. J., is attested by the sale of \$25,000 new engine-house bonds to Edgar W. Brick, of Crosswicks, at \$106.41. City Treasurer W. J. B. Stokes has been congratulated on the deal, in view of the present condition of the money market.

AN INITIATIVE ORDINANCE for scaling down the fares charged by Denver, Colo., street railways is being circulated in that city. If adopted by the voters, as seems probable, it will be in the line of terminating machine rule, according to advocates of the proposition.

TO TEACH POLICEMEN THE LAW and how to enforce it, Chief of Police Doyle, of Minneapolis, Minn., has ar-

ranged a series of lectures to be delivered by prominent attorneys and judges, which must be attended by the officers. A new set of rules for the Department has also been issued.

A BREAK IN THE DAM of the Lewiston reservoir, near Bellefontaine, Mo., brought out the entire population of the town of Lakeview, which was threatened with a deluge. After working a day and night, the citizens, with the assistance of experts, succeeded in repairing the damage.

A CENTRAL BRIDGE COMMITTEE has been appointed by Mayor Kane, of Lawrence, Mass., to determine the most feasible plans for a new structure across the Merrimac River. It consists of Rev. James T. O'Reilly, Hon. James O. Leonard, Associate Justice Wilbur O. Rowell, James E. Barlow, and Hon. John Breen.

FIVE HUNDRED NEW POLICEMEN have been added to the Chicago force. Of two hundred who went on duty April 1, twenty-eight were city employees, mostly firemen; thirty-two were conductors or motormen, five were bartenders or saloon-keepers, fifteen were unemployed, and one hundred and twenty were engaged in miscellaneous vocations, all branches of trade being represented.

THE BOARD OF PUBLIC SERVICE OF YOUNGSTOWN, OHIO, has received a remarkable report of the condition of the city's water supply. Samples of unfiltered water showed on examination 40,000 bacterial foci per cubic centimeter, while in one sample of filtered water none were discovered; other tests made at the same time indicated a removal of from 97 to 99.88 per cent. of bacteria.

THE LEAGUE OF AMERICAN MUNICIPALITIES may have President Roosevelt as a guest at the convention at Chicago, September 26-28. A delegation, which included Mayor Dunne of Chicago, Mayor Bookwalter of Indianapolis, John McVicar, former Mayor of Des Moines, Iowa, and a committee from the Chicago Commercial Association, recently visited Washington to extend a formal invitation.

THE USE OF ASPHALT for pavements, instead of macadam, is advocated by Mayor Cutler, of Rochester, N. Y. His name was among the signers of a petition for putting in this material on East Avenue, where he owns considerable property. He claims that the first cost of macadam is more than the cost of asphalt, and it costs five times as much to maintain it, while asphalt can be easily washed and kept in a sanitary condition.

CITY EMPLOYEES in Massachusetts who are under the Civil Service rules, if suspended or removed, may appeal to the State Board of Arbitration and Conciliation, according to a bill which has passed the House of Representatives of the General Court. The measure is fathered by Martin M. Lomasney, the Boston political leader, who opposed Mayor John F. Fitzgerald in the campaign last fall, and is designed to prevent the Mayor from removing any office holders who worked against his nomination and election. The bill, however, will affect all the cities in the State, and a determined effort will be made to prevent its enactment into law.

## INCORPORATIONS

**ALABAMA.**—**Interstate Construction Co.**, Mobile, Alabama, contractors and structural engineers. Authorized capital, \$25,000. Incorporators: Chas. H. Owen, president; Jules J. Hennitque, vice-president; J. R. D. Bray, secretary and treasurer.

**The Junction Light and Water Co.**, of Junction City; \$10,000. Incorporators: R. G. Brown, W. V. Brown and D. K. Brown. The Local telephone company of Junction City, \$10,000, with same incorporators.

**DELAWARE.**—**Pittston Light, Heat & Power Co.**, Wilkesbarre, Pa.; to supply heat, light and power to firms and corporations; capital, \$100,000. Incorporators: Edward J. Rutledge, Pittston, Pa.; Frank P. Slattery, John Flannaghan, Wilkesbarre.

**James Maloy Construction Co.**, Wilmington, Del.; to construct, equip, maintain and operate public works of all kinds. Capital, \$150,000.

**Keystone Contracting Co.**, Wilmington, Del.; to do a general contracting business; capital, \$100,000.

**Park Realty Co.**, Wilmington, Del.; to carry out contracts, etc., for improving buildings, etc. Capital, \$100,000.

**MASSACHUSETTS.**—**Marlborough Equipment Co.**; to deal in gas and electrical goods and fixtures. Capital, \$3,000. President, Julius P. Watson, Concord, Mass.; treasurer and clerk, Herbert B. Smith, Marlboro, Mass.

**Worcester Light & Equipment Co.**; \$10,000. Albert, M. Thompson, William J. Hall, Elmer E. Carpenter, William E. Lewis, Winslow R. Robinson.

**Henderson Trapcrete Co.**, Boston; \$100,000. John D. Henderson, Thomas J. Boynton, Henry E. Whittemore.

**C. H. Crosby Co.**, Boston; contractors; \$5,000. C. H. Crosby, L. A. Chandler, A. Harry Werner.

**The Rhode Island Sanitary Dust Removing Co.**, Worcester; \$10,000. David B. Lovell, Stephen Sawyer, John W. Tarbox.

**American Street Sanitation Co.**; to deal in patent rights. Capital, \$1,000,000. President, M. W. Baldwin; treasurer, C. E. Eaton; clerk, M. W. Baldwin, Portland.

**Dover Construction Co.**; \$10,000. Michael W. Comiskey, Charles W. Sawyer, James McGill.

**MAINE.**—**International Contracting Co.**; to deal in real estate, etc. Capital, \$500,000. President and treasurer, I. L. Fairbanks; clerk, L. A. Burleigh, both of Augusta.

**The Tiffany Electric Manufacturing Co.**, of Portland, has voted to decrease the amount of its capital stock from \$1,300,000 to \$250,000.

**The King Construction Co.**, organized at Portland to conduct a general contracting business. Capital stock, \$100,000, nothing paid in, par value, \$100. Promoters, Charles King, president and treasurer, Boston, Mass.; Charles H. Barnaby, Somerville, Mass.; R. L. Dodge, South Portland, Me.; E. W. Freeman, Portland.

**MISSOURI.**—**Terra Cotta Fireproofing Co.**, of Kansas City; \$2,000, all paid. Incorporators: G. Frank Morris, George H. Davis and George H. Tefft.

**NEW JERSEY.**—**Lammerding-Devine Co.**, No. 227 Broad St., Elizabeth, N. J.; contracting, etc. Capital, \$20,000. Incorporators: John Lammerding, John J. Devine, John McQueen and Herman Eilbacher, all of Elizabeth, N. J.

**Economy Paving & Construction Co.**, No. 1222 Broad St., Newark, N. J.; to manufacture artificial stone, brick, fireproof and waterproof materials. Capital, \$15,000. Incorporators: James Harvey Griffin, Cliff Side, N. J.; Charles A. Makowski and James W. Lyon, as above.

**Seaboard Brick Co.**, No. 419 Market St., Camden, N. J.; to manufacture bricks, tiles, pipes, pottery, earthenware, terra cotta, etc. Capital, \$100,000. Incorporators: F. R. Hansell, John A. MacMeak and George H. B. Martin, as above.

**The Foxhall Brick Co.**, Grant St., Passaic, N. J.; manufacture brick, artificial stone, building and road material. Capital, \$60,000. Incorporators: Thomas Foxhall, Passaic, N. J.; Edward Grabbie, Toms River, N. J.; Edward T. Sawtell, N. Y.

**Harlingen Vigilant Association**, registered office, Harlingen. Trustees: John H. Shoup, David D. Gabriel, Eugene V. Crusier. The company is to provide protection against tramps.

**Standard Asphalt and Rubber Co.**, registered office, 15 Exchange Place, Jersey City; agent in charge, Corporation Trust Co. Capital stock, \$1,000,000, divided into \$300,000 preferred, bearing 6 per cent. cumulative dividend, and \$700,000 common stock. Incorporators: H. O. Coughlin, Thomas F. Barrett, John R. Turner, all of 15 Exchange Place, Jersey City. The company is to produce, deal in and manufacture asphalt, mineral rubber, petroleum and kindred products.

**Southern Public Service Corporation**, No. 419 Market St., Camden, N. J.; to deal in bonds, scrip, shares, etc., for the purpose of any railway, tramway and other undertaking. Capital, \$600,000. Incorporators: H. Burd Cassel, Marietta, Pa.; George H. B. Martin, Camden, N. J.; Andrew N. Walker, Darlington, S. C.

**Waterproof & Enamel Co.**, No. 170A Monticello Ave., Jersey City; to manufacture waterproofing materials. Capital, \$250,000. Incorporators: T. R. Lane, as above; Chester Williams, No. 32 Broadway; Dorothy C. Grabhorn, No. 516 Wales Ave., both of New York.

**Great Falls Electric Properties**, No. 765 Broad St., Newark, N. J.; to operate by electricity or otherwise streets and interurban railways, etc. Capital, \$1,000,000. Incorporators: Pressley E. Bisland, Bronxville, N. Y.; William S. Brayton, East Orange, N. J.; Robert Randall, No. 30 Broad St., New York.

**Independent Brick Co.**, No. 32 East State St., Trenton, N. J.; to manufacture bricks, building materials, etc. Capital, \$150,000. Incorporators: John Maddock, Muirheid Ave., Trenton, N. J.; Joseph Lacy, White House, N. J.; Frederic L. Hulme, as above.

**Bickford Fire Brick Co.**, No. 127 Market St., Camden, N. J.; to manufacture fire bricks, etc. Capital, \$750,000. Incorporators: John Jerome Deery and F. L. Richardson, Philadelphia; Wilfred B. Wolcott, Camden, N. J.

**NEW YORK.**—**Concrete Stone & Coal Co.**, Niagara Falls, N. Y.; to manufacture concrete blocks, etc. Capital, \$30,000. Incorporators: Willis W. Snyder, William H. Gillett, Robert W. Pollard and Myron A. Paul, all of Niagara Falls, N. Y.

**Massapequa Gas, Electric Light & Power Co.**, Massapequa, N. Y.; gas and electric. Capital, \$50,000. Incorporators: J. S. Lilly, No. 1997 Seventh Ave., New York; George F. Parmelee and Stuart M. Beard, Yonkers, N. Y.

**New York Electric Controller Co.**, New York; to manufacture electric supplies and electric specialties. Capital, \$1,000. Incorporators: George Weideman, No.

463 Fifth St.; Thomas H. Cooper, No. 267 Flatbush Ave., both of Brooklyn; F. L. Willard, No. 27 Chambers St., New York.

**Workmen's Home Construction Co.**, Brooklyn; real estate, building materials, etc. Capital, \$10,000. Incorporators: Newman H. Raymond, No. 226 Clark St.; Harold J. Moore, No. 217½ Fourth St., both of Jersey City, N. J.; Dorus F. Chute, No. 602 Franklin Ave., Brooklyn.

**Stuyvesant Brick Co.**, Mechanicville, N. Y.; to manufacture brick. Capital, \$50,000. Incorporators: Cornelius R. Sheffer and Fred H. Ferris, Mechanicville, N. Y.; John Scanlon, Cohoes, N. Y., and others.

**Sand-Cement Brick Co.**, Glens Falls, N. Y.; to manufacture brick, cement blocks, etc. Capital, \$30,000. Incorporators: Lemon Thompson, Catharine R. Burdick, Charles E. Ballard, Edward Thomson, Jr., and Thompson & Rogers, all of Glens Falls, N. Y.; Daniel L. Rogers, Bolton Landing, N. Y.

**L. C. Roberts Manufacturing Co.**, Fillmore, N. Y.; to manufacture concrete mixer, boilers, engines, etc. Capital, \$50,000. Incorporators: John H. Howden, Wilson L. Young and William P. Brooks, all of Fillmore, N. Y., and others.

**Beck Flaming Lamp Co.**, Canton, N. Y.; to manufacture electrical machines and appliances. Capital, \$300,000. Incorporators: Charles J. Kleber, No. 244 West 106th St.; Louis J. Auerbacher, No. 216 West 133d St., both of New York; Eli Teeter, No. 100 Orchard St., Newark, N. J., and others.

**Jamestown Cement Stone Co.**, Jamestown, N. Y.; to deal in sand, cement, etc. Capital, \$10,000. Incorporators: Arthur H. Greenland and Emerson A. Gilbert, Jamestown, N. Y.; Charles L. Larder, Buchanan, N. Y., and others.

**Viele, Cooper & Blackwell**, No. 49 Wall St., New York; mechanical, electrical and hydraulic engineers and general contractors. Capital, \$1,500,000. Incorporators: Maurice A. Viele, No. 172 West 79th St., New York; Hugh L. Cooper, Stamford, Conn.; Francis O. Blackwell, Englewood, N. J.

**Truxton & Cuyler Telephone Co.**; telephone line. Capital, \$10,000. Incorporators: Adelbert D. Theobald, M. B. Dunbar, J. B. Whitmarsh, Cuyler, N. Y.

**Co-operative Foodstuffs Stores**, Brooklyn; to deal in foodstuffs of all kinds. Capital, \$25,000. Incorporators: Simon, Celine and Harry E. Wolff, No. 1663 Broadway, Brooklyn; E. N. Bloomberg, No. 5 Beekman St., New York.

**T. A. S. Sheridan Co.**, New York; general contractors. Capital, \$30,000. Incorporators: Frank Frirsch, No. 1123 Rogers Ave., Brooklyn; Louis Flanders, No. 143 West 143d St.; Armin Wald, No. 323 East 86th St., New York.

**J. P. Donna Tile Co.**, New York; to manufacture and deal in slate, tile, marble, etc. Capital, \$5,000. Incorporators: Joseph P. Donna and Louis Pareti, No. 73 East 118th St.; Dominico Pareti, No. 87 West Third St., all of New York, and others.

**Hannibal Telephone Co. of the Village of Hannibal, N. Y.**, Hannibal; telephone line. Capital, \$5,000. Incorporators: Charles A. Cox, Ernest W. Rice, Mark H. Minar, Hannibal, N. Y.

**South Hannibal Telephone Co.**, Hannibal, N. Y.; telephone line. Capital, \$1,820. Incorporators: Peter A. Welling, Grant B. Wilson, Ernest W. Rice, Hannibal, N. Y.

**TEXAS.**—**Galveston Creosoting Co.**, of Galveston; manufacturing. Capital stock, \$25,000. Incorporators: C. R. Cummings, Houston; F. A. Langbehn and G. A. Weber, Galveston.



## THE WEEK'S CONTRACT NEWS

Relating to Municipal and Public Work—The Construction Field—Proposals and Contracts—Sewerage and Water Supply—Street Improvement and Lighting—Fire Equipment—Buildings

### STREET IMPROVEMENTS

San José, Cal.—The Alameda will be paved with macadam.

Wheaton, Ill.—Plans have been prepared for nine miles of paving; estimated cost, \$225,000.—C. A. Prout, City Engineer.

Portland, Ind.—Bids will be received, April 19, for construction of gravel road in Porter county; length, 9,200 feet.—Stephen P. Corby, County Auditor.

Sheridan, Ind.—An ordinance has passed the Council for paving Main street with brick; estimated cost, \$3,500.

Davenport, Iowa.—Ordinances have been passed for paving several streets. Second and Fourth streets will be paved with brick and portions of Twelfth avenue with asphalt.

Estherville, Iowa.—It is proposed to issue \$15,000 in bonds for improving roads.

Leavenworth, Kan.—Bids will be received for curbing and paving several streets.—M. A. Prozyblowicz, City Clerk.

Flint, Mich.—The City Council has voted to have Third street paved under direction of the City Engineer. Metropolitan brick will probably be used.

Duluth, Minn.—Approximately \$25,000 will be expended remodeling the Lake avenue viaduct by the Northern Pacific Railroad Company.

Brooklyn, N. Y.—An appropriation of \$2,500,000 has been asked for paving certain streets with asphalt.—Bird S. Coler, President, Brooklyn Borough.

Rochester, N. Y.—It is reported that three streets will shortly be paved at a cost of \$17,500.—E. A. Fisher, City Engineer.

Rochester, N. Y.—Specifications for paving East avenue are being prepared. Work to be done in two sections. Bids to be received for several kinds of material.

Utica, N. Y.—Petitions have been presented to Council for paving Shaw and Elizabeth streets.

Alliance, O.—The Council decided to pave Oxford and Patterson streets. Other paving will also be done.

Barberton, O.—Legislation has been introduced for paving Third street, West Barberton.

Bellaire, O.—F. B. Archer has been awarded the contract for grading and paving Franklin street.

Canton, O.—Downs and Campbell have been awarded a contract for paving one street at Canal Dover with asphalt block and Canton Standard block for \$15,000, also to construct a mile of sewer at Salem.

Chillicothe, O.—The resolution to construct cement sidewalks on High street has

passed the Council.—E. S. Wenis, City Clerk.

Cleveland, O.—The citizens of Dover township have asked the County Commissioners to pave six miles of North Ridge road; estimated cost, \$122,000.

Cleveland, O.—The Commissioners have been petitioned to pave Highland road with macadam at a cost of \$50,000.

Columbus, O.—Property owners are insisting on paving West street; cost to city, \$4,000.

Conneaut, O.—An ordinance for improving Harbor street is being considered. City Engineer Linniger estimates laying macadam, \$21,000; and brick paving, \$33,000.

Dayton, O.—Council will again receive bids for improving Summit street. Bids will be asked for paving and curbing the approaches to the new Herman avenue bridge, to cost \$1,100.

Dayton, O.—Property owners ask for paving Jones street. City Engineer Kline reports cost of paving Beckel street at \$8,500. Resolutions have been passed for paving Broadway, Euclid avenue and West Third street with brick. Plans are being made for East Third street.

Delaware, Ohio.—Sandusky street, and probably West Winter, Franklin and West Williams streets will be paved.

East Liverpool, O.—Paving is proposed for Pennsylvania avenue. Dr. W. S. Yates favors asphalt blocks.

Findlay, O.—Bids will be opened, April 28, for the purchase of street paving bonds as follows: Lima avenue, \$16,000; Tiffin avenue, \$19,000; Clinton street, \$6,000; Shenkle street, \$7,680; Center street, \$9,120.—William Demland, City Auditor.

Findlay, O.—The City Council is considering plans for paving Baldwin avenue. An ordinance appropriating funds is before the Street Committee.

Lancaster, O.—The paving and Market house ordinances, which include a provision for paving Chestnut street, have passed the Council.

Mansfield, O.—The City Council has directed that Harker street be paved and sidewalks laid.

Marion, Ohio.—New pavements will probably be laid on Franklin and Columbia streets.

Portsmouth, O.—Property owners have petitioned Council to pave Front street.

Youngstown, O.—Resolutions to pave Ford avenue and to lay sidewalk on North Watt street have passed the Council. Protests against paving Marion avenue and West Federal street have been filed.

Allegheny, Pa.—An ordinance is before the City Council for a \$100,000 bond issue to pay for street improvements.

Pittsburg, Pa.—Bids for constructing the Altoona-Roaring Springs road will be received at the office of the company, 427 Fourth avenue, Pittsburg, Pa.—F. J. Thompson, Secretary.

Spartanburg, S. C.—The city will expend \$10,000 on street improvements.

Sherman, Tex.—The citizens have voted to issue \$20,000 paving bonds.

Roanoke, Va.—The contract for paving Front street, two squares; Henry street, one square, and East Campbell avenue, two squares, with Belgium or granite has been awarded the Southern Contracting Company; approximate cost, \$15,000.—W. E. Thomas, City Clerk.

Suffolk, Va.—The Town Council will issue \$150,000 bonds for street and sidewalk improvements.

Pullman, Wash.—A contract has been let for macadamizing the business streets, to cost \$8,500.

Seattle, Wash.—Bids will shortly be invited for regrading a score of streets in the Jackson street district; estimated cost, \$180,000; and excavating abutting private property, to cost about \$70,000 additional.

Fulton, W. Va.—The town will appropriate \$2,000 for paving a portion of the National road with brick, and will also propose a bond issue, to pay for further paving and request the assistance of the County Commissioners.—James Noll, Mayor.

Racine, Wis.—Resolutions have been passed for grading Fifteenth and La Salle streets. The paving of West Sixth street with brick is being considered.

Spartanburg, S. C.—The city has awarded to the Southern Bitulithic Company a contract for 75,000 square yards of bitulithic paving. Bids were received for both brick and bitulithic.

### SEWERS

Huntsville, Ala.—The City Council will issue \$10,000 in bonds for building sewers.—H. C. Pallard, City Clerk.

Auburn, Cal.—It is proposed to build additional sewers. Preliminary plans are being prepared.

Reno, Cal.—It is said that \$500,000 in bonds may be issued for constructing sewers.

Pensacola, Fla.—Proposals are invited, until April 19, for building storm water drains and sanitary sewers. The cost will be \$250,000.—Charles H. Bliss, Mayor; L. Hilton Green, Chairman, Bond Trustees.

Springfield, Ill.—An 18-inch vitrified pipe sewer will be laid in First street.—John S. Vredenburg, President, Board of Improvements.

Pocahontas, Iowa.—Bids are wanted, until May 2, for constructing sewers and drains in local District No. 14, aggregating 28,000 cubic yards of excavation.

Van Buren, Ind.—New sewers may shortly be constructed in several streets.

Jefferson, Ind.—Plans are being prepared for a sewer in Mechanic street.

Grand Rapids, Mich.—A sewer will be built in Hilton street; estimated cost, \$91,000.

New Orleans, La.—Proposals are asked, until May 8, for laying pipe sewers.—F. S. Shields, Secretary, Sewerage and Water Board.

St. Charles, Mo.—Bonds for \$80,000 will shortly be issued for constructing sewers.

Binghamton, N. Y.—Proposals will shortly be asked for new sewers; also for repairing existing sewers.

Barberton, O.—The Walter P. Rice Engineering Company, of Cleveland, will prepare plans for a West End sewer.

Chillicothe, O.—The Board of Trade has recommended the sewerage of Honey creek, at an estimated cost of \$3,000.

Chillicothe, O.—A \$2,000 bond issue will be authorized to pay for construction of Eastern avenue storm sewer.

Columbus, O.—Residents along Kelton avenue are petitioning for a large number of sewers in that section of town.

Dayton, O.—The trustees of the Ninth Ward have recommended passage of bond ordinance to provide funds for storm water drainage of the southeastern section.

New Bremen, O.—The Village Engineer has been instructed to prepare plans and specifications for a sewer in Washington street.

Springfield, O.—An 8-inch sanitary sewer is being considered for Yellow Springs street; estimated cost, \$2,150.—W. H. Sieverling, City Engineer.

Webster, S. D.—The question of issuing \$10,000 sewer bonds will be voted on at the spring election.

Waxahachie, Texas.—An election will be held, April 30, to decide the matter of issuing \$10,000 in bonds for improving the sewerage system.

#### WATER SUPPLY

Phoenix, Ariz.—Bonds for \$300,000 have been sold for constructing waterworks. Plans are being prepared and bids will be asked about June 1.—F. H. Lyman, Secretary, Water Commission.

Grass Valley, Cal.—The matter of issuing bonds for improvements to the waterworks is being considered.

Joliet, Ill.—Resolutions for improving Cedar Slip with gas and water mains have been adopted.

Rockford, Ill.—The Purchasing Committee of the Council invites bids for a 10,000,000-gallon pumping engine and boilers for the waterworks plant.

Columbus, Ind.—Bids will be received, April 16, for the construction of an infiltration gallery in White river.—George Vorwald, City Clerk.

Atoka, I. T.—Bonds, \$30,000, have been voted for constructing the waterworks system.

Roff, I. T.—Bids will be received, April 24, for supplies for the waterworks.—O'Neill Engineering Company, Dallas, Texas.

Grinnell, Iowa.—New wells will be dug for waterworks, at a cost of \$8,500.

Breaux Bridge, La.—Plants are being prepared for waterworks, at cost of about \$40,000.

Marquette, Mich.—The Board of Public Improvements favors establishing a system of waterworks.

Minneapolis, Minn.—Water mains from six to sixteen miles, costing \$87,358.80, have been ordered. An appropriation of \$125,000 may be authorized.—J. H. McConnell, Supervisor.

Natchez, Miss.—A bill before the Legislature authorizes an issue of \$80,000 bonds for a municipal water and light plant and \$25,000 for a schoolhouse.

Columbia, Mo.—Bonds, \$30,000, have been voted to improve the waterworks.

Beatrice, Neb.—The Council is considering a proposition for a better water supply.

Asbury Park, N. J.—Proposals will be received, April 18, for cast-iron pipes.—John C. Coffin, Superintendent, Department of Water.

Dickinson, N. D.—Plans and estimates are being prepared for building waterworks. The cost will approximate \$43,000.—Loweth & Wolff, engineers.

Colonial Beach, Va.—Water works and sewage systems are being planned by C. S. York, Baltimore, Md.

Ritzville, Wash.—The Town Council will employ an expert engineer to investigate the cost and furnish plans for proposed waterworks.

New Martinsville, W. Va.—The City Council is considering the proposed \$10,000 bond issue for constructing a reservoir.

Montreal, Canada.—It is recommended that \$159,500 be appropriated for proposed improvements at the waterworks.

#### PUBLIC LIGHTING

Nome, Alaska.—It is proposed to build an electric-power plant at Salmon Lake, on the Pilgrim river.

Little Rock, Ark.—It is said that the Pulaski Gas Company will improve its plant at a cost of \$100,000.

San Bernardino, Cal.—The Home Gas Light Company will issue \$40,000 in bonds to improve its plant.

Chicago, Ill.—Plans have been prepared for building an electric-power plant at Waukegan, Ill. The estimated cost of \$3,500,000.—Shepley, Rutan & Coolidge, architects.

Carroll, Iowa.—A franchise has been

granted Nicholas & Kelly, Perry, Iowa, to erect and operate a gas plant.

Oelwein, Iowa.—A franchise will shortly be granted for the construction of a gas plant.

Madisonville, Ky.—Proposals will be received, until May 1, for erecting a municipal electric-light plant.

Hyattsville, Md.—The matter of erecting an electric-light plant is still under consideration. The estimated cost is \$12,000.

Birmingham, Mich.—Preliminary plans are being prepared for erecting a new gas plant.

Iron River, Mich.—The people will vote on the question of issuing bonds for an electric-light plant.

Alexandria, Minn.—Preliminary plans will be prepared for the proposed electric-light plant.

Versailles, Mo.—The citizens have voted to issue bonds for improving the electric-light plant.

Charlotte, N. C.—The Fuller Gin Company may shortly install an electric power plant at its mills.—James T. Fuller, President.

Jackson, O.—Bonds will be issued for improvements to the electric-light plant.

Paulding, O.—It is stated that \$10,000 in bonds will be issued for building an electric-light plant.

Kingstree, S. C.—The citizens have voted to issue bonds for constructing an electric-light plant.

Bryan, Texas.—Preliminary plans are being prepared for erecting a \$20,000 electric-light plant.—George Grupe, Engineer.

St. Augustine, Texas.—A company has been organized to erect an electric-light plant.

Danville, Va.—Plans are being prepared for improving the local gas plant; estimated cost, \$40,000.

New Westminster, B. C., Canada.—The Stave Lake Power Company will erect a power house on the Stave river. A dam will also be built.

#### FIRE DEPARTMENT SUPPLIES

Pine Bluff, Ark.—The City Council proposes to establish a fire station in the Lakeside district.

Denver, Col.—Plans are being prepared for a new fire station at Iowa and Ogden streets.

Wilmington, Del.—Proposals are invited, until April 15, for erecting a new hose house for the Fire Department.—E. L. Rice, Independent Fire Company.

Kendallville, Ind.—The matter of better fire protection is being discussed. New apparatus may be purchased.

Abbeyville, La.—Proposals will be received, April 16, for furnishing 15,000 feet of rubber fire hose.—George Somers, Secretary.

Menahga, Minn.—The City Council is considering plans for better fire protection.

Canton, O.—It is proposed to expend \$55,000 for improving Fire Department stations. New buildings may be erected.



Wellsville, O.—Improved fire protection is being considered. Apparatus may be purchased.

New Cumberland, Pa.—A \$3,000 appropriation is available for building a fire station.—George Wilson, Chairman, City Committee.

Tyndall, S. D.—It is proposed to erect a fire station.

Amarillo, Texas.—The State Attorney-General has approved the proposed \$10,000 bond issue for building an engine-house. Preliminary plans are being prepared.

Hoquiam, Wash.—The City Council has ordered plans and estimates for improving the fire service.

#### PUBLIC BUILDINGS

Birmingham, Ala.—The city may shortly erect a new jail. Preliminary plans and estimates will be considered.—George B. Ward, Mayor.

Montgomery, Ala.—Proposals for the purchase of \$75,000 school bonds will be received, April 16.—R. S. Williams, Clerk.

San Rafael, Cal.—Bonds for \$25,000 for new schools may shortly be issued.

Sardonis, Ill.—An election will be held to decide the question of issuing \$50,000 school bonds.

Woodstock, Ill.—The question of issuing bonds for erecting a high school will be decided at the April election.

Ravia, I. T.—Bonds, \$5,000, will be issued for erecting a new schoolhouse.

Watumka, I. T.—An election will be held, April 16, to decide the question of issuing \$14,000, 6 per cent., 20 year school bonds.

Barbourville, Ky.—The School Board has decided to issue \$10,000 in bonds for school purposes.

Baker City, Ore.—The town will issue \$20,000 in bonds for the erection of a schoolhouse.

Cowpens, S. C.—The question of issuing bonds for school purposes will be decided at the spring election, April 17.

Caddo Mills, Texas.—A \$30,000 bond issue has been authorized for the erection of a new schoolhouse.

Lockhart, Texas.—The School Board will shortly issue \$15,000 in bonds for improvements.

Rogers, Texas.—The question of issuing bonds for school purposes will come up at the election, April 21.

Centralia, Wash.—Bonds for \$15,000 will be issued for a new school building.

#### MISCELLANEOUS

Chicago, Ill.—The Aurora, Elgin and Chicago Railway Company has decided to issue \$25,000,000 bonds for improvements.

Chicago, Ill.—The New Illinois Athletic Club will expend \$30,000 for improving its clubhouse.

Mt. Vernon, Ind.—Proposals will be opened, April 16, for constructing four steel bridges in Posey County.

South Bend, Ind.—The County Commissioners have been petitioned to order the immediate construction of a bridge across the St. Joseph river at La Salle avenue to replace the present structure.

Purcell, I. T.—Plans have been prepared and funds subscribed to build a \$30,000 bridge between Purcell and Lexington.—J. W. Hooker is interested.

Wichita, Kan.—County Commissioners will build 70-foot steel bridge in Valley Center township and two pile bridges.

Hopeville, La.—A new bridge may be built over Bayou Manchac, at Hopeville.

Thibodaux, La.—A railroad bridge will be built across the Bayou Lafouche.

Pittsfield, Mass.—The Board of Public Works has authorized an appropriation of \$3,000 for building a bridge at Taconic.

Clearwater, Minn.—Bonds for \$5,000 will shortly be issued to provide local improvements.

Excelsior, Minn.—The county has decided to build a \$36,000 steel bridge across St. Albans Bay.

Minneapolis, Minn.—The Park Board has appropriated \$2,700 as the city's share of a bridge to be built by the Northern Pacific railway over the Lexington avenue parkway. The structure will be of steel and concrete, with a 36-foot roadway, and cost about \$23,000.

Minneapolis, Minn.—Plans have been completed for building a garbage crematory.—Andrew Rinker, City Engineer.

Minneapolis, Minn.—Sealed bids will be received, April 16, by the Hennepin County Board of Commissioners for building bridge No. 264, according to specifications.—Hugh R. Scott, County Auditor.

Yazoo City, Miss.—The Council has under consideration the question of issuing \$50,000 bonds for aiding the electric street railway.

St. Louis, Mo.—The construction of a crematory, at cost of \$200,000, is recommended.

Missoula, Mont.—The issue of \$20,000 bonds for a bridge across the Missoula

river at Van Buren street will be voted on by the people.

Lincoln, Neb.—The Lancaster County Commissioners are preparing a list of bridges to be constructed, and repairs to be made during the year. Bids will be invited shortly.

Abuquerque, N. M.—Bids are asked, until April 14, for reconstructing the county bridge at Coralles; also for repairs to the bridge over the Rio Grande at Barelaso.—A. E. Walker, County Clerk.

Portsmouth, Ohio.—The City Council is considering a petition for a right of way for an electric railway, to cost \$80,000.

Steubenville, O.—Bids will be opened, May 2, for purchasing \$20,000, 4½ per cent. bonds for a garbage plant.—Frank S. King, City Auditor.

Toledo, O.—The Board of Service will borrow \$6,000 or \$8,000 for repairing the Oak street bridge.

Eugene, Ore.—The City Council is considering application for a franchise for use of the streets for an electric railway by A. B. Wood, G. B. Hengen, O. F. Paxton and F. L. Chambers.

Portland, Ore.—The Portland General Electric Company will expend \$2,000,000 in improvements.

Portland, Ore.—The East Side Improvement Association has a special committee in the field to hasten the construction of a steel bridge across the gulch at Grand avenue.

Philadelphia, Pa.—Plans for constructing a bridge over the Wissahickon creek at Walnut lane have been approved by the Board of City Surveyors. It will be of stone, 505 feet long and 65 feet wide, and have a 230 foot span; estimated cost, \$200,000.

Pottstown, Pa.—The Montgomery County Court has been petitioned for a bridge over the Manatawny.

Reading, Pa.—The construction of a sewage disposal plant is being considered.

Salt Lake City, Utah.—It is reported that the Utah Gas & Coke Company will issue \$3,000,000 in bonds for improvements.

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Norfolk, Va.—The Norfolk Street Railway Company will expend \$3,000,000 improving the street railway system.

Seattle, Wash.—A crematory will be built at a cost of \$30,000.

Wheeling, W. Va.—Kitchen garbage will be collected by Albert Gehring for \$15,300.

Green Bay, Wis.—The Ashwaubenon bridge is unsafe; a committee recommends that the Council rebuild.

Kimberly, Wis.—The bridge across the Fox river has been taken out by the ice.

Milwaukee, Wis.—An ordinance providing for the issue of \$125,000 bonds for building a bascule bridge over the river at Kinnickinnic avenue is before the Council.

Watertown, Wis.—The City Council has granted a 50-year franchise for an electric railway to the Wisconsin Light, Heat and Traction Company.

#### BRICK PAVING

WEST TAMPA, FLA.  
The Board of Bond Trustees of West Tampa, Fla., will receive sealed proposals until 4 P.M., April 25, 1906, for a sufficient quantity of vitrified paving brick to pave 30,000 square yards of streets.

Prices given in bids to mean f. o. b. cars at West Tampa, Fla.

The Board reserves the right to reject any or all bids.

GEO. N. BENJAMIN,  
Chairman of Board of Bond Trustees.

#### PUMPING ENGINE

BOWLING GREEN, KY., April 3, 1906.  
Sealed proposals will be received by the Board of Public Works and Common Council of the City of Bowling Green, Ky., until 2 o'clock, P.M., on Thursday, April 26, 1906, for furnishing and installing complete with foundations and connections one Three-Million-Gallon Pumping Engine of from 90 to 120 million duty.

Proposals may be made on Crank and Fly-Wheel, Direct-acting, or Compensated types of machine, with either compound or triple expansion steam cylinders. Machine must be of vertical type.

A certified check for \$1,000.00, payable to City of Bowling Green, Ky., deposited with Wm. Carr, Treasurer, will be required with each proposal.

Specifications may be obtained by addressing the Consulting Engineer, Granberry Jackson, C. E., Nashville, Tenn., or the City Engineer, E. P. Harris, Bowling Green, Ky. The right is reserved to accept or reject any or all bids.

GEO. T. WILSON, Mayor.  
W. H. PHILIPS, City Clerk.

#### BRICK PAVING

BAYONNE, N. J.  
Sealed proposals will be received by the Council of the City of Bayonne, N. J., at a meeting to be held in the City Hall on Tuesday, April 17, 1906, at 8 P.M., for all of the labor and material for constructing about 9,170 square yards of brick paving and appurtenances in Thirty-first Street from Avenue A to Avenue E.

All bids must be on the regular forms provided for the purpose. Plans and specifications are on file in the office of the City Surveyor, where blank forms of proposal or any further information can be obtained.

The amount of bond for the faithful performance of the work is \$8,000, and the time allowed for completion is eighty days.

The Council reserves the right to reject any or all bids.

W. C. HAMILTON,  
City Clerk.  
F. W. DALRYMPLE,  
City Surveyor.

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